

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	41306	flow.cfm. and control\$4.cfm. and gas.cfm. and (apparatus system chamber reactor).cfm.	US-PGPUB; USPAT	OR	ON	2007/09/20 15:53
L2	2788	(flow.cfm. with control\$4.cfm. with (position\$4 attach\$4 locat\$4).cfm. with (between adjacent).cfm.) and gas.cfm. and (apparatus system chamber reactor).cfm.	US-PGPUB; USPAT	OR	ON	2007/09/20 15:54
L3	630	(flow.cfm. with control\$4.cfm. with (position\$4 attach\$4 locat\$4).cfm. with (between adjacent).cfm. with (vertical\$4 above below under underneath upper lower).cfm.) and gas.cfm. and (apparatus system chamber reactor).cfm.	US-PGPUB; USPAT	OR	ON	2007/09/20 15:56
L4	27	(flow.cfm. with control\$4.cfm. with (position\$4 attach\$4 locat\$4).cfm. with (between adjacent).cfm. with (vertical\$4 above below under underneath upper lower).cfm.) and gas.cfm. and (apparatus system chamber reactor).cfm. and (wafer substrate object semiconductor workpiece).cfm.	US-PGPUB; USPAT	OR	ON	2007/09/20 15:57
L6	85	takahashi-youji.in. makino-akitaka.in. soraoka-minoru.in. tauchi-susumu.in. kihara-hideki.in.	US-PGPUB; USPAT	OR	ON	2007/09/20 16:09
L7	82	6 and control\$4	US-PGPUB; USPAT	OR	ON	2007/09/20 16:09
L8	32	6 and control\$4.cfm.	US-PGPUB; USPAT	OR	ON	2007/09/20 16:10
S11 3	2125	((118/719) or (414/939) or (156/345.31) or (156/345.32)). CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/09/20 15:51
S11 4	590	S113 and (flow with control\$4)	US-PGPUB; USPAT	OR	ON	2006/04/17 14:11
S11 5	796	cluster and ("mass flow controller")	US-PGPUB; USPAT	OR	ON	2004/12/28 17:16
S11 6	457	(cluster with (process\$3 chamber treat\$4)) and ("mass flow controller")	US-PGPUB; USPAT	OR	ON	2004/12/28 17:17
S11 7	129	(cluster with (process\$3 chamber treat\$4)) and (("mass flow controller") with (locat\$4 position\$4 situat\$3))	US-PGPUB; USPAT	OR	ON	2004/12/28 17:18
S11 8	7	(cluster with (process\$3 chamber treat\$4)) and (("mass flow controller") with (locat\$4 position\$4 situat\$3) with between)	US-PGPUB; USPAT	OR	ON	2004/12/28 17:18
S11 9	23	("20030160239" "4828224" "4889609" "5186718" "5286296" "5609689" "5611655" "5651868" "5784799" "5785796" "5810942" "5820692" "5913978" "5934856" "6042623" "6048154" "6106634" "6224312" "6224679" "6286230" "6312525" "6488778" "6536136").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2004/12/28 17:23
S12 0	23	("20030160239" "4828224" "4889609" "5186718" "5286296" "5609689" "5611655" "5651868" "5784799" "5785796" "5810942" "5820692" "5913978" "5934856" "6042623" "6048154" "6106634" "6224312" "6224679" "6286230" "6312525" "6488778" "6536136").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2004/12/28 17:23
S12 1	23	("20030160239" "4828224" "4889609" "5186718" "5286296" "5609689" "5611655" "5651868" "5784799" "5785796" "5810942" "5820692" "5913978" "5934856" "6042623" "6048154" "6106634" "6224312" "6224679" "6286230" "6312525" "6488778" "6536136").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2004/12/28 17:23
S12 2	10	("4749440" "4816638" "4857142" "4900395" "4951601" "5067218" "5228206" "5292393" "5301701" "5403434").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2004/12/28 17:33
S12 3	6	("5820692").URPN.	USPAT	OR	ON	2004/12/28 17:34

EAST Search History

S12 4	3152	c23c016\$.ipc. and (flow with control\$4)	US-PGPUB; USPAT	OR	ON	2004/12/28 18:56
S12 5	1793	c23c016\$.ipc. and (flow with control\$4)	EPO; JPO; DERWENT	OR	ON	2007/01/08 12:20
S12 6	1	("6286230").PN.	US-PGPUB; USPAT	OR	OFF	2004/12/29 12:53
S12 7	1	("6312525").PN.	US-PGPUB; USPAT	OR	OFF	2004/12/29 12:55
S12 8	2	"cluster tool" with high with frequency with power with source	US-PGPUB; USPAT	OR	ON	2004/12/29 12:55
S12 9	2	"cluster tool" same (high with frequency with power with source)	US-PGPUB; USPAT	OR	ON	2004/12/29 12:56
S13 0	67	"cluster tool" and (high with frequency with power with source)	US-PGPUB; USPAT	OR	ON	2004/12/29 12:56
S13 1	2	"cluster tool" and (high with frequency with power with source)	EPO; JPO; DERWENT	OR	ON	2004/12/29 12:56
S13 2	20	(US-20040187784-\$).did. or (US-4523544-\$ or US-4539934-\$ or US-4670126-\$ or US-4816098-\$ or US-4976996-\$ or US-5020475-\$ or US-5258075-\$ or US-5474647-\$ or US-5562800-\$ or US-5785796-\$ or US-5820692-\$ or US-5981399-\$ or US-6083321-\$ or US-6277199-\$ or US-6286230-\$ or US-6312525-\$ or US-6797617-\$ or US-6051281-\$).did. or (JP-08127861-\$).did.	US-PGPUB; USPAT; JPO	OR	ON	2004/12/29 15:00
S13 3	2	S132 and table	US-PGPUB; USPAT	OR	ON	2004/12/29 15:17
S13 4	8	S132 and ((susceptor holder platform table) with (wafer substrate))	US-PGPUB; USPAT	OR	ON	2004/12/29 16:43
S13 5	38	takahashi-youji.in. makino-akitaka.in. soraoka-minoru.in. tauchi-susumu.in.	US-PGPUB; USPAT	OR	ON	2005/03/28 20:18
S13 6	2212	((118/719) or (414/939) or (156/345.31) or (156/345.32)). CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/03/28 17:27
S13 7	28	S136 and (double with wall)	US-PGPUB; USPAT	OR	ON	2005/03/28 18:09
S13 8	27	S136 and ("cvd" with (typic\$4 convention\$4 usual\$4) with vacuum)	US-PGPUB; USPAT	OR	ON	2005/03/28 17:55
S13 9	566	"cvd" and (double with wall)	US-PGPUB; USPAT	OR	ON	2005/03/28 18:10
S14 0	0	"cvd" and (double with wall) and symetrical\$4	US-PGPUB; USPAT	OR	ON	2005/03/28 18:10
S14 1	0	"cvd" and (double with wall\$3) and symetrical\$4	US-PGPUB; USPAT	OR	ON	2005/03/28 18:10
S14 2	94	"cvd" and (double with wall\$3) and symmetrical\$4	US-PGPUB; USPAT	OR	ON	2005/03/28 18:11
S14 3	10	"cvd" and (double with wall\$3) and (symmetrical\$4 with chamber)	US-PGPUB; USPAT	OR	ON	2005/03/28 18:23
S14 4	18	"cvd" and (double with wall\$3) and (symmetrical\$4 with (flow\$3 stream))	US-PGPUB; USPAT	OR	ON	2005/03/28 18:23
S14 5	18	("5592581").URPN.	USPAT	OR	ON	2005/03/28 18:26
S14 6	44	takahashi-youji.in. makino-akitaka.in. soraoka-minoru.in. tauchi-susumu.in.	US-PGPUB; USPAT	OR	ON	2005/03/28 20:18
S14 7	53	takahashi-youji.in. makino-akitaka.in. soraoka-minoru.in. tauchi-susumu.in. kihara-hideki.in.	US-PGPUB; USPAT	OR	ON	2007/09/20 16:07
S14 8	3	S147 and double	US-PGPUB; USPAT	OR	ON	2005/03/28 20:19

EAST Search History

S14 9	34	(US-20020197145-\$ or US-20040187784-\$ or US-20050051091-\$ or US-20050051092-\$ or US-20050051093-\$).did. or (US-4523544-\$ or US-4539934-\$ or US-4670126-\$ or US-4816098-\$ or US-4976996-\$ or US-5020475-\$ or US-5216223-\$ or US-5223001-\$ or US-5258075-\$ or US-5474647-\$ or US-5484484-\$ or US-5562800-\$ or US-5592581-\$ or US-5785796-\$ or US-5820692-\$ or US-5858100-\$ or US-5884009-\$ or US-5981399-\$ or US-6051281-\$ or US-6083321-\$ or US-6111225-\$ or US-6192827-\$ or US-6277199-\$ or US-6286230-\$ or US-6312525-\$ or US-6647918-\$).did. or (US-6797617-\$ or US-6814813-\$).did. or (JP-08127861-\$).did.	US-PGPUB; USPAT; JPO	OR	ON	2005/04/27 18:59
S15 0	331	(interpos\$3 between) with (arrang\$3 locat\$3 position\$3) with ((mass with flow with control) "mfc")	US-PGPUB; USPAT	OR	ON	2005/08/07 20:33
S15 1	62	(interpos\$3 between) with (arrang\$3 locat\$3 position\$3) with ((mass with flow with control) "mfc")	EPO; JPO; DERWENT	OR	ON	2005/08/07 20:09
S15 2	0	S151 and ((cluster transfer\$4 transport\$4 convey\$4 mov\$4) with (wafer substrate workpiece semiconductor))	EPO; JPO; DERWENT	OR	ON	2005/08/07 20:10
S15 3	0	S151 and ((cluster transfer\$4 transport\$4 convey\$4 mov\$4) and (wafer substrate workpiece semiconductor))	EPO; JPO; DERWENT	OR	ON	2005/08/07 20:10
S15 4	76	S150 and ((cluster transfer\$4 transport\$4 convey\$4 mov\$4) and (wafer substrate workpiece semiconductor))	US-PGPUB; USPAT	OR	ON	2005/08/07 20:11
S15 5	16	S150 and ((cluster transfer\$4 transport\$4 convey\$4 mov\$4) with (wafer substrate workpiece semiconductor))	US-PGPUB; USPAT	OR	ON	2005/08/07 20:26
S15 6	0	(118/719.ccls. 414/939.ccls. 156/345.31.ccls. 156/345.32.ccls.) and ((beside next adjacent) with (arrang\$3 locat\$3 position\$3) with ((mass with flow with control) "mfc"))	US-PGPUB; USPAT	OR	ON	2005/08/07 20:16
S15 7	19	(118/719.ccls. 414/939.ccls. 156/345.31.ccls. 156/345.32.ccls.) and ((arrang\$3 locat\$3 position\$3) with ((mass with flow with control) "mfc"))	US-PGPUB; USPAT	OR	ON	2005/08/07 20:19
S15 8	0	(118/719.ccls. 414/939.ccls. 156/345.31.ccls. 156/345.32.ccls.) and ((shar\$3) with ((mass with flow with control) "mfc"))	US-PGPUB; USPAT	OR	ON	2005/08/07 20:19
S15 9	3	((cluster transfer\$4 transport\$4 convey\$4 mov\$4) with (wafer substrate workpiece semiconductor)) and ((shar\$3) with ((mass with flow with control) "mfc"))	US-PGPUB; USPAT	OR	ON	2005/08/07 20:21
S16 0	0	((cluster transfer\$4 transport\$4 convey\$4 mov\$4) with (wafer substrate workpiece semiconductor)) and ((shar\$3) with ((mass with flow with control) "mfc"))	EPO; JPO; DERWENT	OR	ON	2005/08/07 20:22
S16 1	1	((cluster transfer\$4 transport\$4 convey\$4 mov\$4)) and ((shar\$3) with ((mass with flow with control) "mfc"))	EPO; JPO; DERWENT	OR	ON	2005/08/07 20:22
S16 2	3	((cluster transfer\$4 transport\$4 convey\$4 mov\$4)) and ((shar\$3) with ((mass with flow with control\$4) "mfc"))	EPO; JPO; DERWENT	OR	ON	2005/08/07 20:23
S16 3	46	((cluster transfer\$4 transport\$4 convey\$4 mov\$4)) and ((shar\$3) with ((mass with flow with control\$4) "mfc"))	US-PGPUB; USPAT	OR	ON	2005/08/07 20:23
S16 4	541	(interpos\$3 between) with (arrang\$3 locat\$3 position\$3) with ((mass with flow with control\$4) "mfc")	US-PGPUB; USPAT	OR	ON	2005/08/07 20:26
S16 5	0	S153 and ((cluster transfer\$4 transport\$4 convey\$4 mov\$4) with (wafer substrate workpiece semiconductor))	US-PGPUB; USPAT	OR	ON	2005/08/07 20:26
S16 6	53	S164 and ((cluster transfer\$4 transport\$4 convey\$4 mov\$4) with (wafer substrate workpiece semiconductor))	US-PGPUB; USPAT	OR	ON	2005/08/07 20:27
S16 7	37	S166 not S155	US-PGPUB; USPAT	OR	ON	2005/08/07 20:27
S16 8	3	(cluster ((transfer\$4 transport\$4 convey\$4) with (wafer substrate semiconductor workpiece))) and (shar\$3) with ((mass with flow with control\$4) "mfc")	US-PGPUB; USPAT	OR	ON	2005/08/07 20:32
S16 9	249	(414/935-941.ccls. 204/298.23-298.29.ccls. 118/719.ccls. 118/718.ccls. 156/345.31.ccls 156/345.32.ccls.) and ((mass with flow with control\$4) "mfc")	US-PGPUB; USPAT	OR	ON	2005/08/08 10:06

EAST Search History

S17 0	39	(414/935-941.ccls. 204/298.23-298.29.ccls. 118/719.ccls. 118/718.ccls. 156/345.31.ccls 156/345.32.ccls.) and (shar\$3 with (mass with flow with control\$4) "mfc")	US-PGPUB; USPAT	OR	ON	2005/08/07 20:42
S17 1	39	(414/935-941.ccls. 204/298.23-298.29.ccls. 118/719.ccls. 118/718.ccls. 156/345.31.ccls 156/345.32.ccls.) and ((share shared sharing) with (mass with flow with control\$4) "mfc")	US-PGPUB; USPAT	OR	ON	2005/08/07 20:43
S17 2	0	(414/935-941.ccls. 204/298.23-298.29.ccls. 118/719.ccls. 118/718.ccls. 156/345.31.ccls 156/345.32.ccls.) and ((share shared sharing) with ((mass with flow with control\$4) "mfc"))	US-PGPUB; USPAT	OR	ON	2005/08/07 20:43
S17 3	24	("4105916" "4149923" "4483651" "4560417" "4638176" "4640224" "4692343" "4702205" "5000682" "5019233" "5138973" "5225771" "5292393" "5310410" "5338423" "5488967" "5515986" "5567268" "5587182" "5595482" "5611861" "5755888" "5855681" "5900105").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/08/08 09:21
S17 4	1	("6228773").URPN.	USPAT	OR	ON	2005/08/08 09:25
S17 5	10	("20010009138" "3739747" "4492181" "4640221" "4690097" "4908243" "6129108" "6228773" "6251192" "6440504").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/08/08 09:25
S17 6	1	("5611861").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/08/08 09:56
S17 7	0	("6558506").URPN.	USPAT	OR	ON	2005/08/08 09:56
S17 8	68	(stack\$3) with ((mass with flow with control\$4) "mfc")	US-PGPUB; USPAT	OR	ON	2005/08/08 10:14
S17 9	3	(space room) with (stack\$3) with ((mass with flow with control\$4) "mfc")	US-PGPUB; USPAT	OR	ON	2005/08/08 10:07
S18 0	1	("6286230").PN.	US-PGPUB; USPAT	OR	OFF	2005/08/08 10:50
S18 1	1	("6558506").PN.	US-PGPUB; USPAT	OR	OFF	2005/08/08 10:58
S18 2	1	("6228773").PN.	US-PGPUB; USPAT	OR	OFF	2005/08/08 10:58
S18 3	2374	((118/719) or (414/939) or (156/345.31) or (156/345.32)).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/17 14:11
S18 4	190	S183 and (mass adj flow adj control\$4)	US-PGPUB; USPAT	OR	ON	2006/04/17 14:11
S18 5	11	("5820692").URPN.	USPAT	OR	ON	2006/04/17 15:16
S18 6	11	("5820692").URPN.	USPAT	OR	ON	2007/01/08 11:32
S18 7	3	("6238533").URPN.	USPAT	OR	ON	2007/01/08 11:48
S18 8	56	("3437864" "3616452" "3619403" "3649502" "3699034" "3705091" "3873884" "3875068" "3879597" "4123316" "4233109" "4351712" "4362632" "4368092" "4421592" "4431898" "4431901" "4668338" "4668365" "4686113" "4716491" "4810935" "4844775" "4849675" "4859908" "4911814" "4918031" "4948458" "4951601" "4990229" "4994162" "4999096" "5018479" "5108570" "5146137" "5178739" "5186718" "5225740" "5231334" "5240880" "5354443" "5371042" "5378660" "5397962" "5406123" "5430355" "5435881" "5514908" "5650032" "5658828" "5686760" "5707486").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/08 12:01

EAST Search History

S18 9	2502	((118/719) or (414/939) or (156/345.31) or (156/345.32)). CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/01/08 12:01
S19 0	764	S189 and ((position\$3 situat\$3 arrang\$5) with control\$4)	US-PGPUB; USPAT	OR	ON	2007/01/08 12:02
S19 1	199	S189 and ((position\$3 situat\$3 arrang\$5) with control\$4 with between)	US-PGPUB; USPAT	OR	ON	2007/01/08 12:12
S19 2	87	S189 and ((position\$3 situat\$3 arrang\$5) with (control\$4 near2 chamber))	US-PGPUB; USPAT	OR	ON	2007/01/08 12:13
S19 3	49	(c23c016\$.ipc. c23f001.ipc. h01i021.ipc.) and cluster and control\$4	EPO; JPO; DERWENT	OR	ON	2007/01/08 12:23
S19 4	1	("5879459").PN.	US-PGPUB; USPAT	OR	OFF	2007/01/08 12:45
S19 5	1	("6277199").PN.	US-PGPUB; USPAT	OR	OFF	2007/01/08 12:46
S19 6	3	118/719.ccls. and muka.in.	US-PGPUB; USPAT	OR	ON	2007/01/08 12:46
S19 7	11	S189 and muka.in.	US-PGPUB; USPAT	OR	ON	2007/01/08 12:46
S19 8	44	("6062798").URPN.	USPAT	OR	ON	2007/01/08 12:48